

FIG. 1

APPROVED	NO. 52
BY	SUBCOMS
DATE	

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SCPA49
SCPA12
SCPB

1 L R K X Q K L P F D K L A I A L M S T S I L L N A Q S D I K A N T V T E D T P A T E Q A V E I P Q P T T V S E E V P S S
-----V-----A-----
-----T-----A-----A-----

61 K E T K T P Q T P D D A E T V A D D A N D L A P Q A P A K T P D T S A T S K A T I R D L N D P S Q V K T L Q E K A G K
-----I-----A-----P-----
-----S-----G-----A-----P-----

121 G A G T V V A V I D A G F D K N H E A W R L T D K A K A R Y Q S K E D L E K A K K E H G I T Y G E W V N D K V A Y Y H D
-----T-----
-----T-----

181 Y S K D G K T A V D Q E H G T H V S G I L S G N A P S E T K E P Y R L E G A M P E A Q L L H R V E I V N G L A D Y A R

241 N Y A Q A I R D A V N L G A K V I N M S F G N A A L A Y A N L P D E T K K P F V Y A K S K G V R I V T T A G N D S S F G
-----A-----D-----S-----S-----
-----I-----A-----D-----S-----S-----

301 G K T R L P L A D H P D Y G V V G T P A A A D S T L T V A S Y S P D N Q L T E T A M V K T D D Q Q D K E M P V L S T N R
-----K-----
-----K-----V R-----A-----

361 F E P N K A Y D Y A Y A N R G H K E D D F K D V K G K I A L I E R S D I D F I D K I A N A K A G A V G V L I Y D N Q D
-----G-----K-----V-----
-----T-----G-----K-----K-----

421 K G F P I E L P N V D Q H P A A F I S R K D G L L L K D N S Q K T I T P N A T P K V L P T A S G T K L S R F S S W G L T
-----P-----
-----P-----

481 A D G N I K P D I A A P G Q D I L S S A A N N K Y A K L S G T S H S A P L V A V I M G L L Q K Q Y E T Q Y P D M T Q S E
-----V-----G-----P-----
-----V-----G-----P-----

541 R L D L A K K V L M S S A T A L Y D E D E K A Y F S P R Q G A G A V D A K K A S E A T H Y V I D K D N I S S K V H L N
-----A-----
-----A-----

601 N V S D K F E V I V I V H N K S D K P H E L Y Y Q A T V Q I D K V D G K H P A L A P K A L I E T S W Q K I T I P A N S S
-----Q-----V-----Y-----A-----
-----N-----Q-----V-----Y-----A-----

661 K Q V T I P I D I S Q F S K D L L A Q M K N G Y F L E G F V R I K Q D P I K E E L H S I P Y I G F R G D F G N L S A L E
-----V-----A-----R-----F-----V-----
-----V-----A-----R-----F-----K-----

721 K P L Y D S K D G S S Y Y H E E I S D A K D Q L D G D G L Q F Y A L K N D F T A L T T E S N P N T I I N V V K E G V E N
-----I-----A N-----N-----K A-----
-----I-----A N-----N-----K A-----

781 I E D I E S S E I T E T I F A G T F A K Q D D R H Y Y I H R H A N G K P Y A A I S P N G D G N R D Y V Q F H G T F L R
-----S-----E-----Q-----
-----L-----S-----Q-----

841 N A K N L V A E V L D K E G N V V K I S E V I E Q V V K N Y N N D L A S T L G S T R F E I S R H D G K D K A K V V A N
-----K T-----G-----
-----K T-----G-----

901 G T Y T Y R V R Y T P I S S G A K E Q H T D F D V I V D N T T P E V A T S A T F S I E D R R L T L A S K P Q I S Q P V Y
-----K-----
-----K-----

961 R E R I A Y T Y M D E D L P T I E Y I S P N E D G T F T L P E E A E T M E G A T V P L K M S D F I Y V V E D M A G N I T
-----T-----

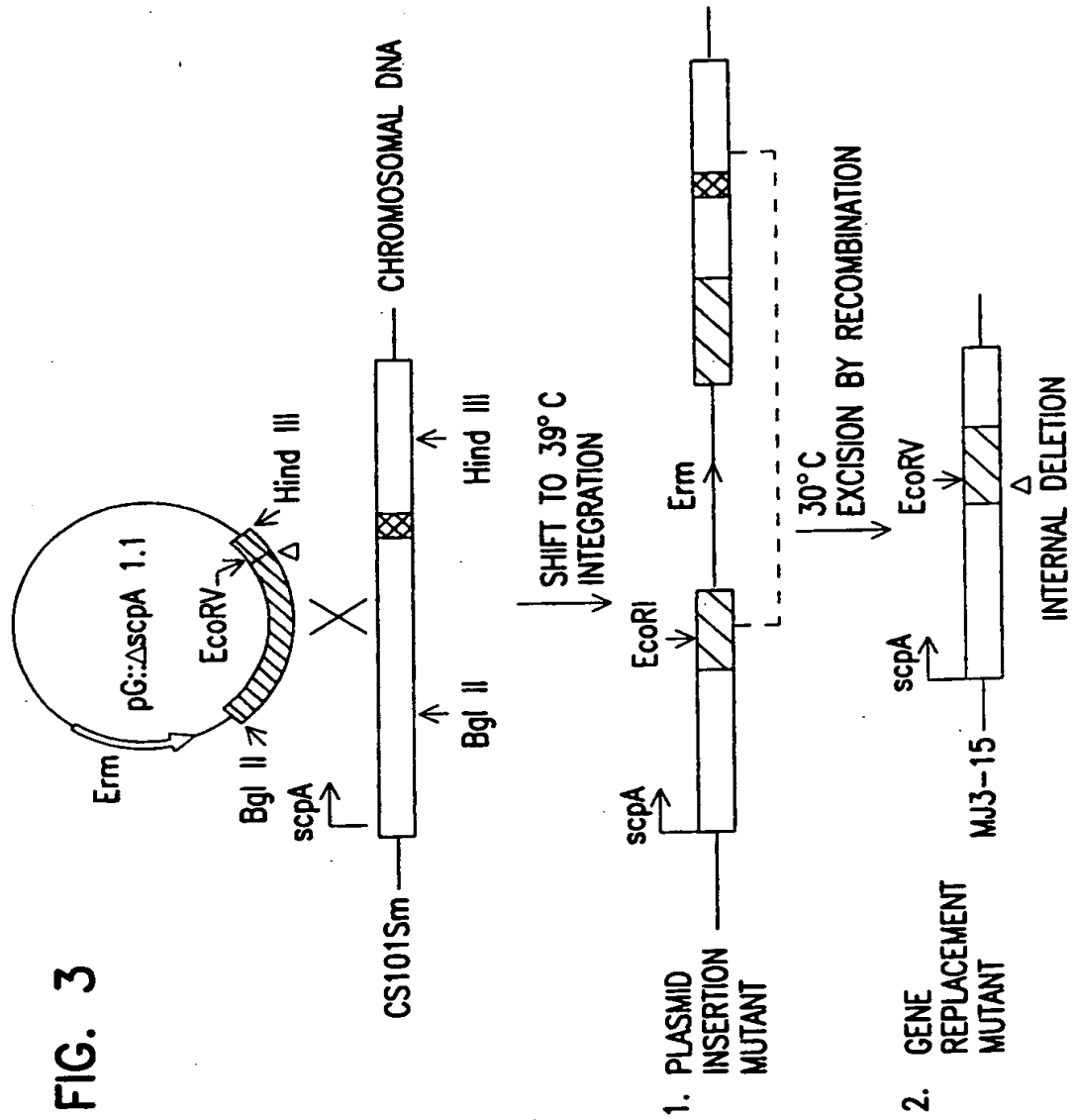
1021 Y T P V I K L L E G H S N K P E Q D G S D Q A P D K K P E T K P E Q D G S D Q A P D K K P E T K P G O D G S G Q T P D K
-----S-----T-----A-----A-----E-----
-----A-----E-----

1081 K P E T K P E K D S S G Q T P G K T P Q K G Q P S R T L E K R S S K R A L A T K A S T R D Q L P T I N D K D T N R L H L
-----T-----

1141 L K L V M T T F F L G L V A H I F K T K R . . . T E D
-----F-----O K E - K K
-----O K E - K K

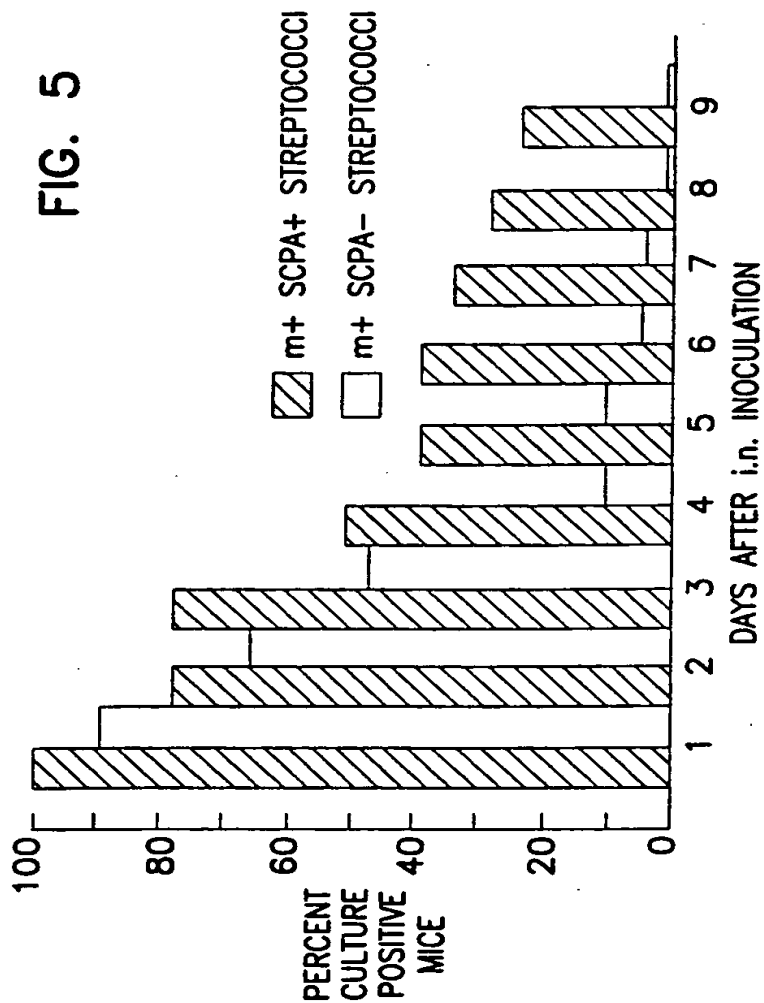
FIG. 2

FIG. 3



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FIG. 5



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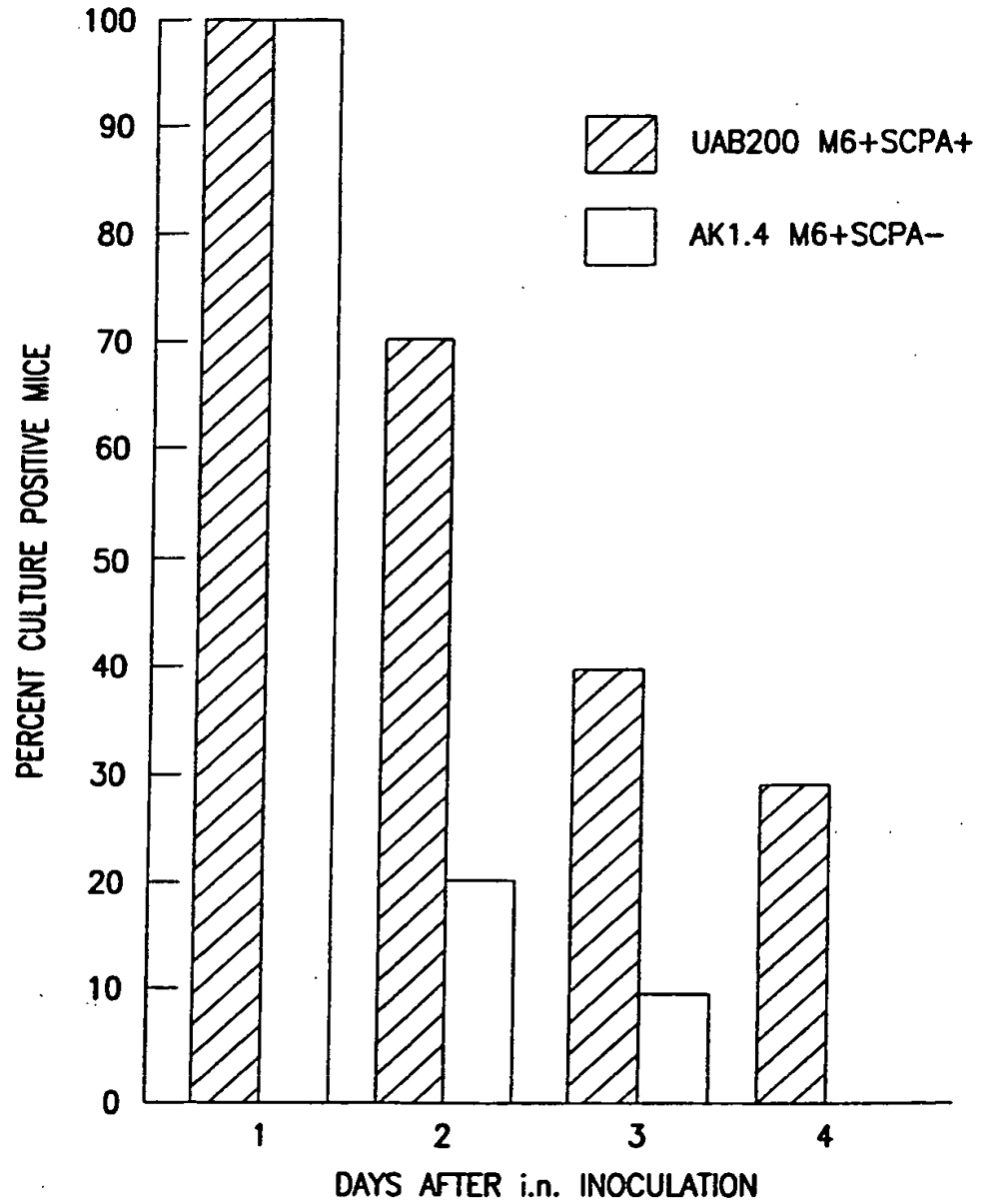
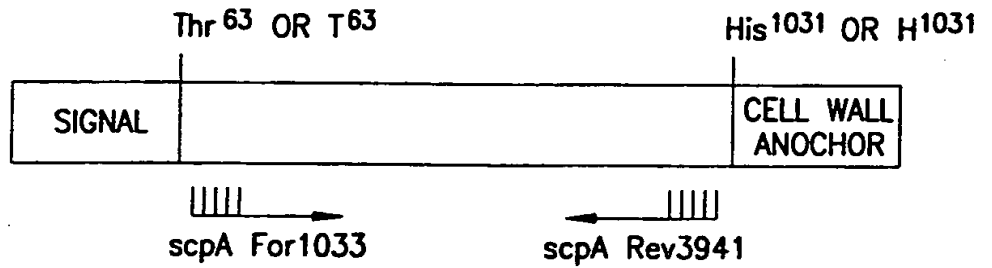


FIG. 6

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FRAGMENT SUBCLONED



pGEX-4T-1 EXPRESSION VECTOR GLUTATHIONE-SCPA49 FUSION



AFFINITY PURIFICATION-GLUTATHIONE COLUMN



INTRANASAL INOCULATION
(FIVE 40µg DOSES)

FIG. 7

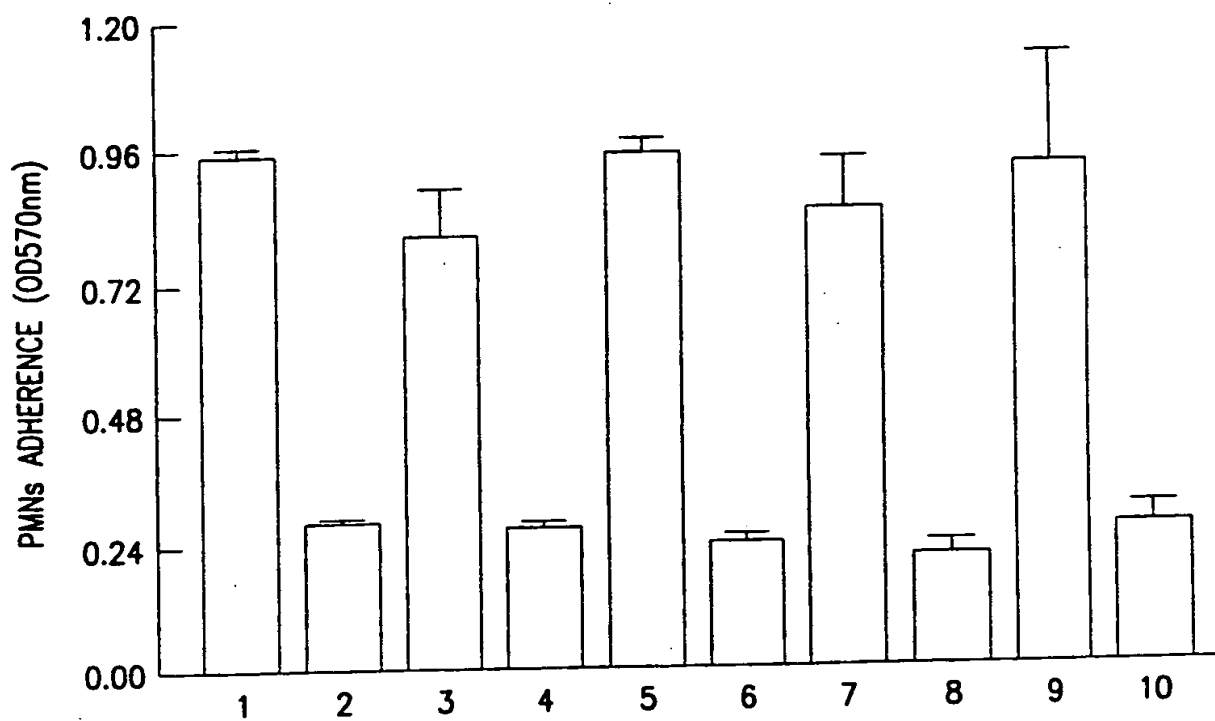


FIG. 8

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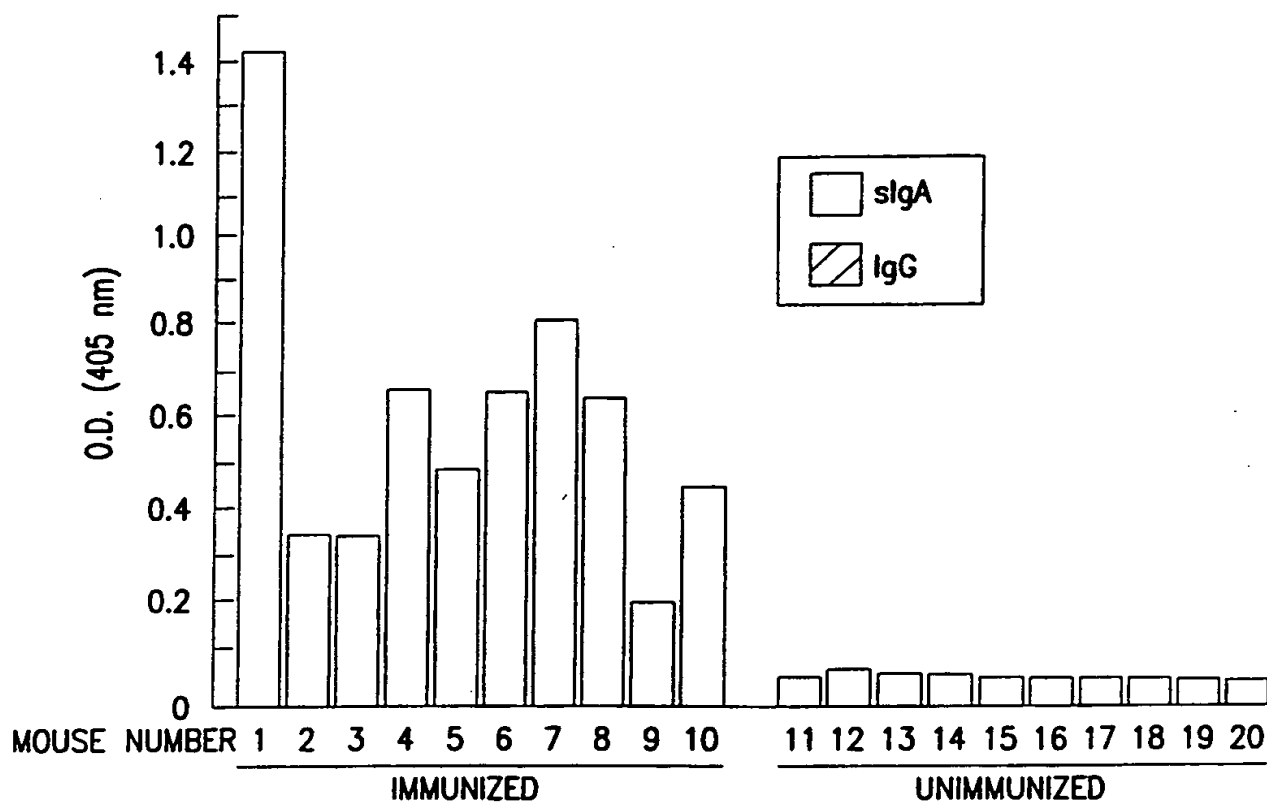


FIG. 9A

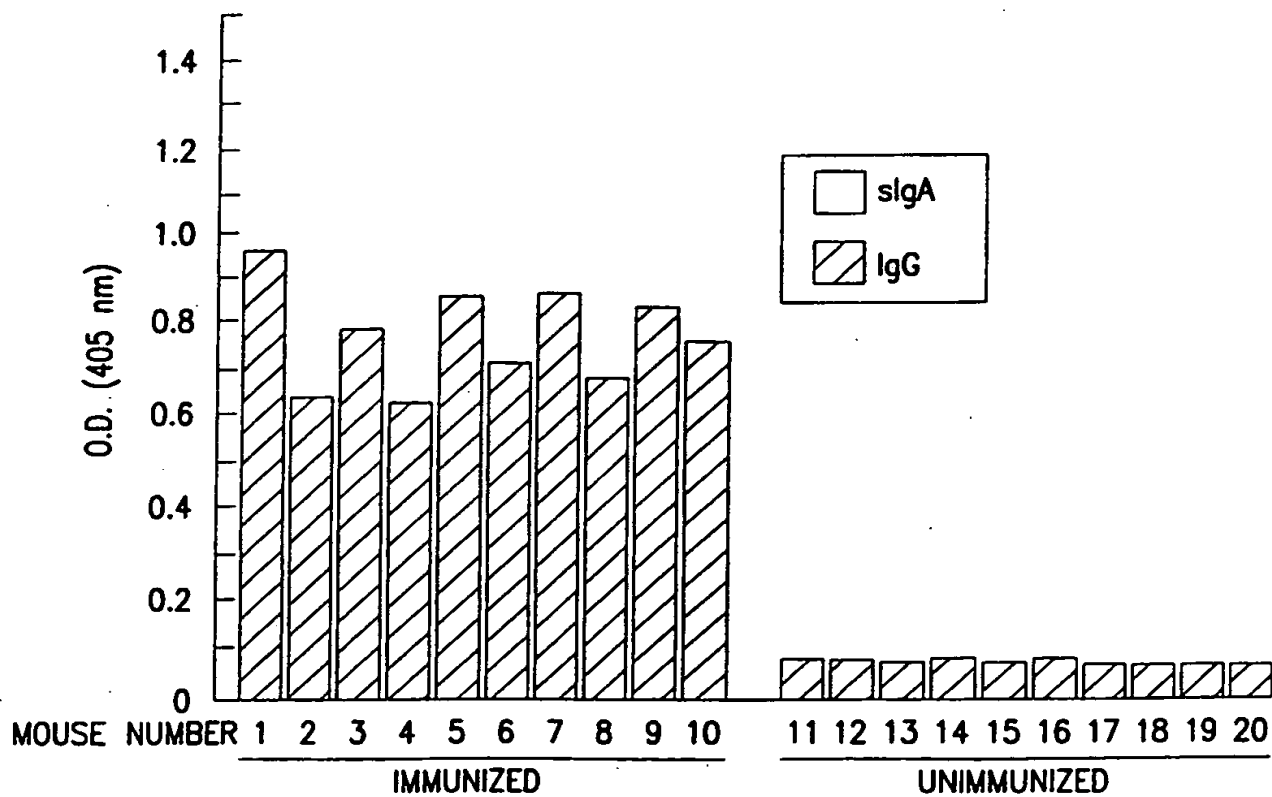


FIG. 9B

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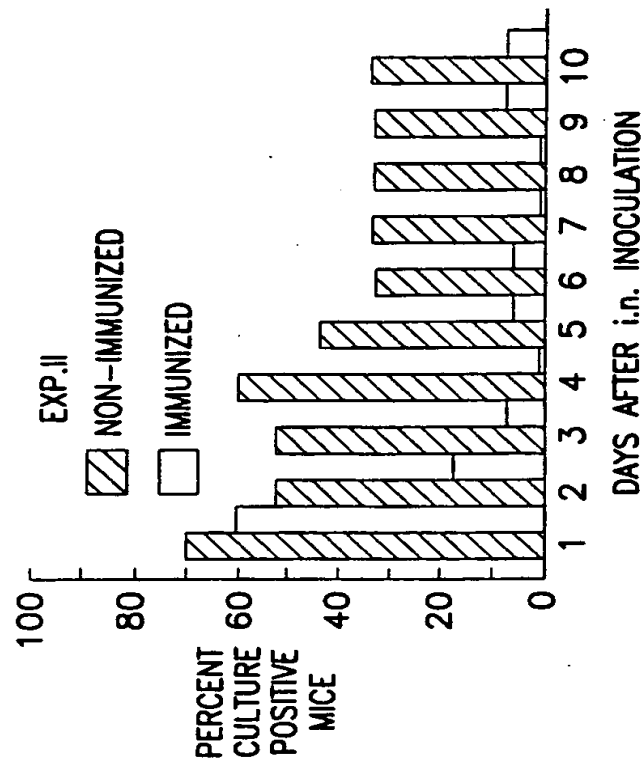


FIG. 10B

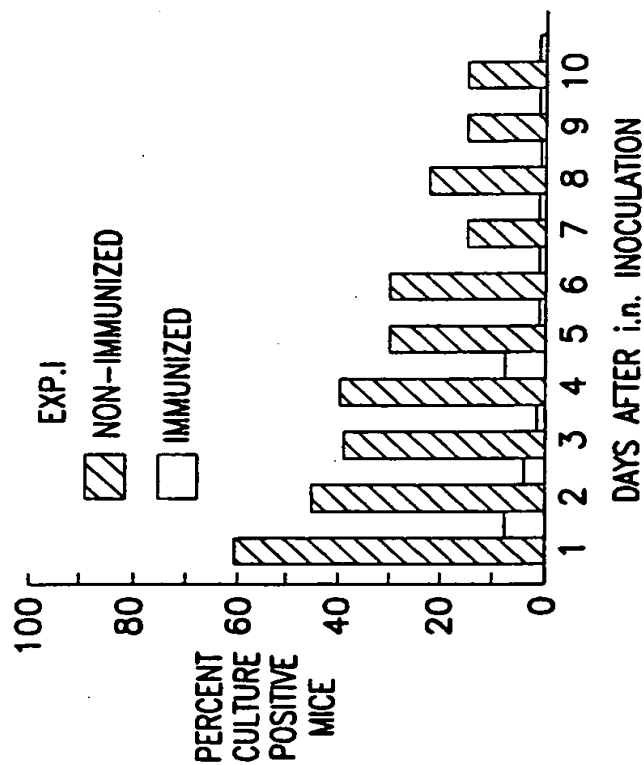


FIG. 10A

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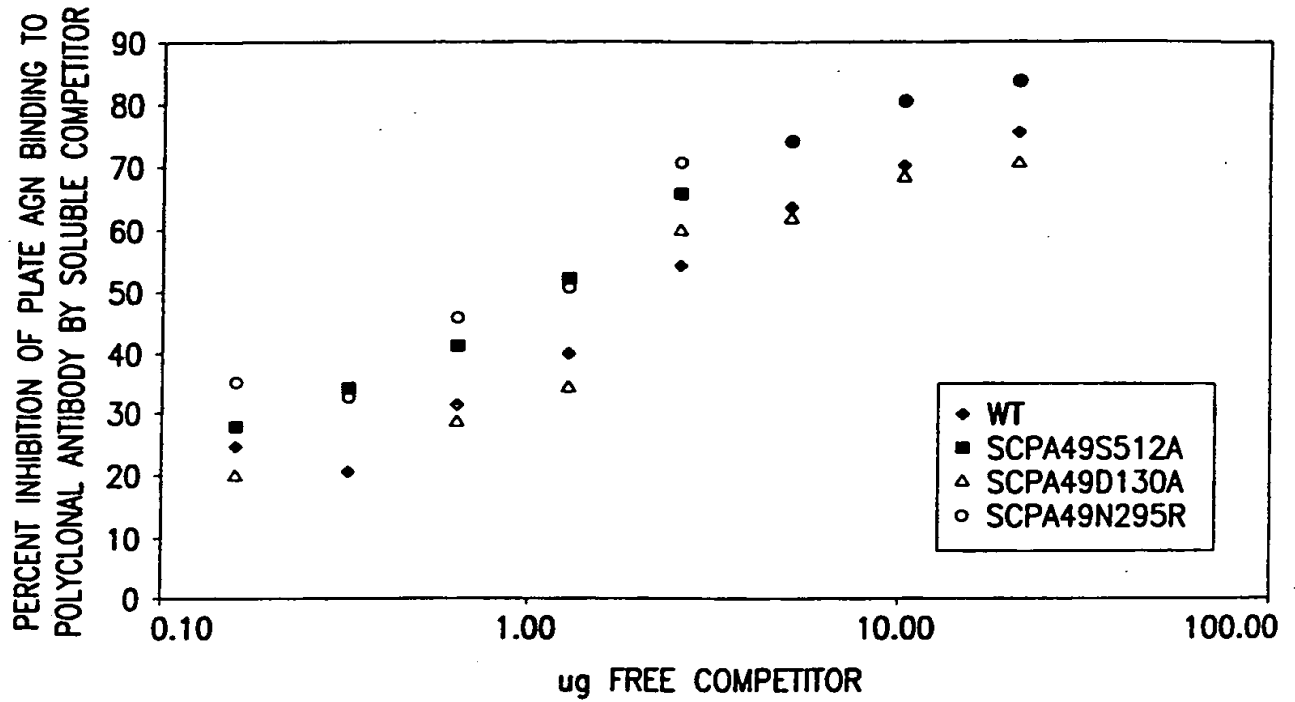


FIG. 11

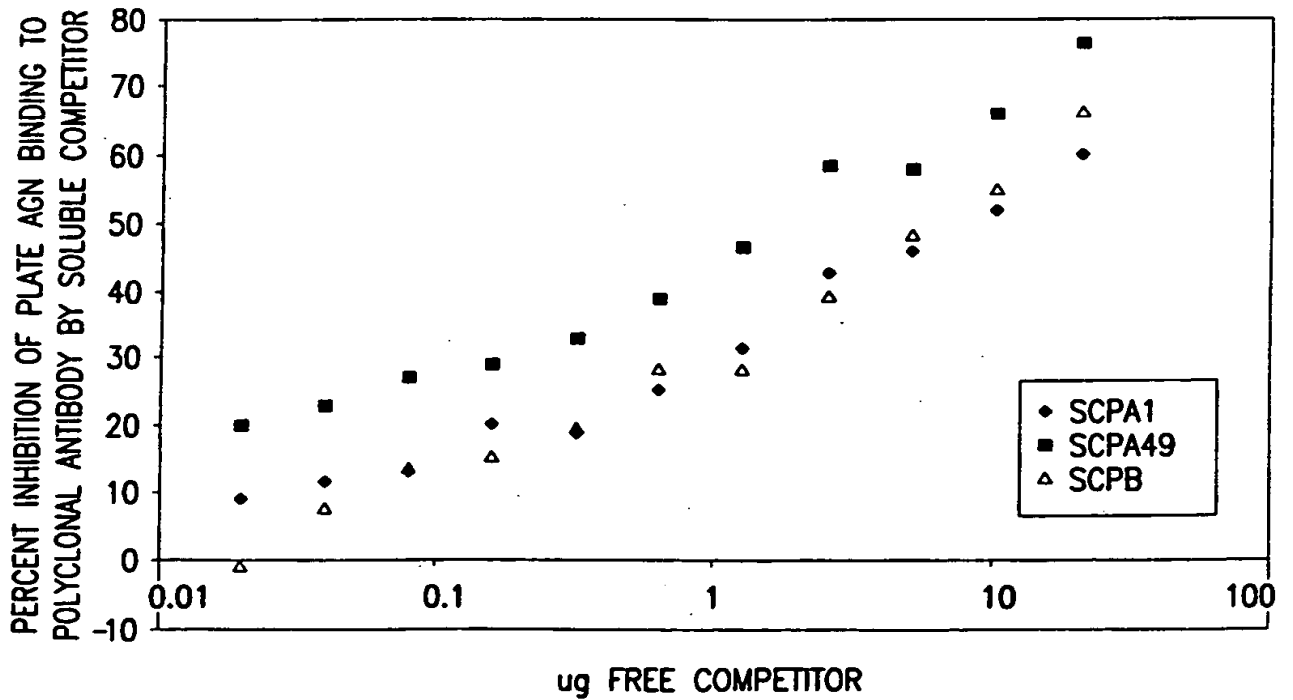


FIG. 12